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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25047

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B43L 13/20; G01B 3/14 | | | |
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| US ČĹ : 033/1B, 562 | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | |
| B. FIELDS SEARCHED | | | |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 033/1B, 1K, 562, 563, 566, 483, 484, 489, 493 | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | | Relevant to claim No. |
| Y | US 2003/0110653 A1 (SCHAFER) 19 June 2003 (19.06.2003), see entire document. | | 1-4 |
| Y | US 2,230,010 A (OWENS) 28 January 1941 (28.01.1941), see column 2 lines 40-45. | | 1-4 |
| A,P | A,P US 2004/0049935 A1 (TANDY) 18 March 2004 (18.03.2004), see paragraph 13. | | 1-4 |
| · А | US 4,745,139 A (HAASL et al) 17 May 1988 (17.05.1988), see entire document. | | 1-4 |
| A | A US 4,015,051 A (OFFERMANN et al) 29 March 1977 (29.03.1977), see entire document. | | 1-4 |
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| Further | documents are listed in the continuation of Box C. | See patent family annex. | |
| | pecial categories of cited documents: | "T" later document published after the inte | rnational filing date or priority |
| "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | | date and not in conflict with the applic principle or theory underlying the inve | |
| | | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination | |
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| *P" document published prior to the international filing date but later than the priority date claimed | | *&* document member of the same patent family | |
| Date of the actual completion of the international search | | Date of mailing of the international search report | |
| 03 February 2005 (03.02.2005) | | 04 MAR 2005 | |
| Name and mailing address of the ISA/US | | Authorized officer | |
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